ANGULAR

1 . Where angular is used…??

**YouTubeTVs is the most popular example that uses Angular.**

2 . Package-lock.json…??

**In this is package all those file or packages or dependency will be displayed that is installed in your system.**

3 . Package.json…??

**In this is package all those file or packages or dependency will be displayed that is important or required for your application.**

4 . What are decorators…??

**Decorators are the features of typescript and are implemented as function. The name of the decorator starts with @ symbol.**

**Decorators are simply functions that return functions. These functions supply metadata to Angular about a particular class, property, value, or method…**

**Decorator are invoked at runtime.**

**Decorators allows as to execute functions. For example, @components executes the component function imported from Angular 7.**

**Ex :**

**@NgModule to define module.**

**@Component() to define components.**

**@Injectable to define service.**

**@input and @output to define the property, that send and receive data from DOM.**

* **Class decorators like @Component, @NgModule**
* **Property decorators like @Input and @Output**
* **Method decorators like @HostListener**
* **Parameter decorators like @Injectable**

5 . What are Directives…??

**Directives are the elements which change the appearance or behavior of the DOM elements.**

**There are three types of Directives manly:**

**1. Components Directives :**

**Without component directive we cannot imagine angular.**

**2. Structural Directives :**

**i. \*ngIf.**

**ii. \*ngFor**

**iii. \*ngSwitch**

**3. Attributes Directive :**

**i. NgStyle**

**ii. NgClass**

**6. Custom Pipes……???**

import { [Pipe](https://angular.io/api/core/Pipe), [PipeTransform](https://angular.io/api/core/PipeTransform) } from '@angular/core';

@[Pipe](https://angular.io/api/core/Pipe)({name: 'exponentialStrength'})

export class ExponentialStrengthPipe implements [PipeTransform](https://angular.io/api/core/PipeTransform) {

transform(value: number, exponent = 1): number

{

return Math.pow(value, exponent);

}

}

**7. Why we need node.js in Angular Application……???**

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**For an example these are few reasons that you need Node.js for building an Angular app,**

* **npm (node package manager) comes with Node.js by default and it allows you to manage your dependencies. So, you don’t have to worry for operations like adding a dependency, removing some, updating your package.json.**
* **npm gives you angular cli or ng cli (angular command-line interface) which is a great tool for building your application easily**
* **Node.js allows you to spin up a lightweight web server to host your application locally in your system.**

**8. Differences between Annotation and Decorator….???**

|  |  |
| --- | --- |
| **Annotation** | **Decorator** |
| **Used by Traceur compiler** | **Used by Typescript compiler** |
| **Annotations are only metadata set on the class using the Reflect Metadata library.** | **Decorator corresponds to a function that is called on the class.** |
| **Annotations are used for creating an attribute annotations that stores array.** | **Decorator is a function that gets the object that needs to be decorated.**  **A decorator is a function that adds metadata to a class, its members, or its method arguments. A decorator is just a function that gives you access to the target that needs to be decorated.** |
| **They are Hard-coded** | **They are not Hard-coded** |
| **Exp. Imports for Annotations: import {ComponentAnnotation as Component} from ‘@angular/core’;** | **Exp. Imports for Decorators: import {Component} from ‘@angular/core’;** |